

Evaluation of Capture LFR and Brigadier 20SP Insecticides in Dark Tobacco

2008 – MSU, Murray, KY

- *Brigadier 20SP is a prepackaged mixture of bifenthrin (Capture) and imidacloprid (Admire Pro).*
- Dark tobacco trial:
 - PD 7302LC set June 10 (40" rows, 32" plant spacing = 4900 plants/A)
 - Treatments applied either in setter water (trt 7) or as 2 foliar sprays up until layby. Foliar applications made July 7 and July 23.
 - Foliar treatments applied using hollow cone (10X) nozzles at 15 gal/A
 - Trial was randomized complete block design with 4 replications
 - Plots 4 rows, 40 ft. long
 - Data collected: in-season evaluations of worm control (hornworm and budworm), dark-fired yield and quality
 - Tobacco harvested September 30, fire-cured

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Treatment (# of app.)	Rate/Acre	Application Timing
Untreated Check	-	-
Capture LFR 1.5EC (2)	6.8 oz/A	4 and 6 wks after transplanting
Capture LFR 1.5EC (2)	8.5 oz/A	4 and 6 wks after transplanting
Brigadier 20SP (2)	5.12 oz/A	4 and 6 wks after transplanting
Brigadier 20SP (2)	6.4 oz/A	4 and 6 wks after transplanting
Brigadier 20SP (2)	7.68 oz/A	4 and 6 wks after transplanting
Capture LFR (setter water) fb (2) foliar Brigadier applications	Capture 4 oz/A Brigadier 6 oz/A	At transplanting and 4 and 6 wks after transplanting

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2008 – MSU, Murray, KY – Rating 1, July 16 (1 wk after 1st foliar)

Treatment	# Worm Damaged Plants per plot (60)
Untreated Check	1.25
Capture LFR 1.5EC (6.8 oz/A)	1.75
Capture LFR 1.5EC (8.5 oz/A)	2.75
Brigadier 20SP (5.12 oz/A)	1.75
Brigadier 20SP (6.4 oz/A)	4.75
Brigadier 20SP (7.68 oz/A)	2.0
Capture LFR (4 oz/A TPW) fb Brigadier (6 oz/A)	0.25
LSD _{0.05}	3.8

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2008 – MSU, Murray, KY – Rating 2, July 29 (1 wk after 2nd foliar)

Treatment	# Worm Damage Plants per plot (60)	# Live Worms per plot
Untreated Check	4.5	0
Capture LFR 1.5EC (6.8 oz/A)	3.25	0
Capture LFR 1.5EC (8.5 oz/A)	3.25	0.25
Brigadier 20SP (5.12 oz/A)	1.75	0
Brigadier 20SP (6.4 oz/A)	4.25	0.5
Brigadier 20SP (7.68 oz/A)	2.25	0.75
Capture LFR (4 oz/A TPW) fb Brigadier (6 oz/A)	1.0	0
LSD _{0.05}	1.96	0.71

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2008 – MSU, Murray, KY – Rating 3, August 29 (5 wks after 2nd foliar)

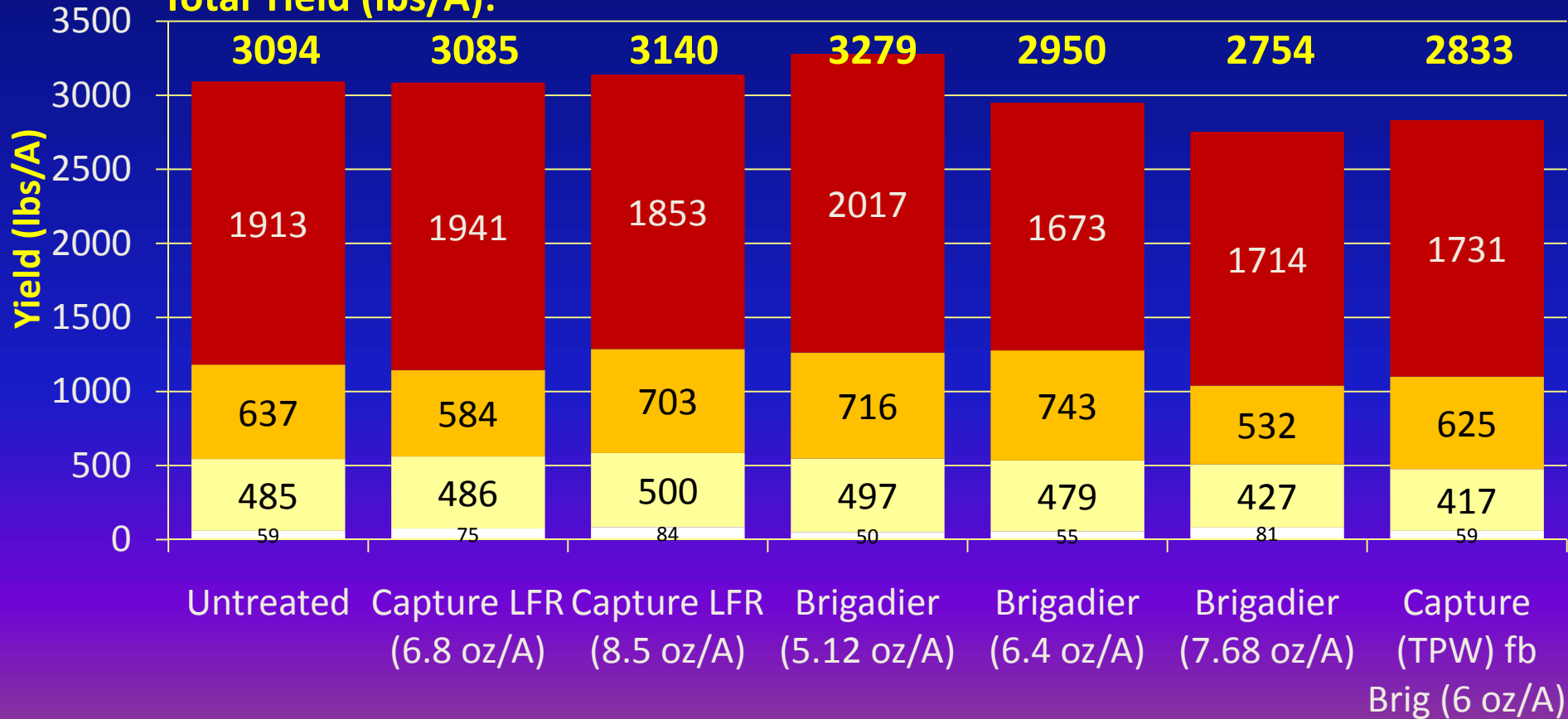
Treatment	# Worms per plot (hornworm)
Untreated Check	2.5
Capture LFR 1.5EC (6.8 oz/A)	1.75
Capture LFR 1.5EC (8.5 oz/A)	0
Brigadier 20SP (5.12 oz/A)	0.5
Brigadier 20SP (6.4 oz/A)	0.25
Brigadier 20SP (7.68 oz/A)	1.75
Capture LFR (4 oz/A TPW) fb Brigadier (6 oz/A)	1
LSD _{0.05}	2.62

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2008 – MSU, Murray, KY – Dark-Fired Tobacco Yield

LSD_{0.05} = 26 130 170 306 416 (total)
 ■ Trash ■ Lug ■ Second ■ Leaf

Total Yield (lbs/A):



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2008 – MSU, Murray, KY – Dark-Fired Quality Grade Index

LSD_{0.05} = 19.8
■ Grade Index

